

What Is Claimed Is:

1. A transmitter head for a system for contactless energy transmission,

comprising a support that is connected to at least one ferrite core,

the ferrite core having an at least partially E-shaped design, and the flat winding being disposed about one limb of the E.

2. A transmitter head for an electrical energy-transmission device having a primary-conductor arrangement made of at least two primary conductors running parallel to each other, and at least one secondary-winding arrangement, electromagnetically coupled thereto, which is mechanically separated from the primary-conductor arrangement and is movable in its longitudinal direction,

the secondary-winding arrangement having at least one secondary coil which takes the form of a flat winding and which lies in a plane that is situated parallel to the plane accommodating the primary-conductor arrangement,

the transmitter head including a support and at least one ferrite core connected thereto,

the ferrite core having an at least partially E-shaped design, and the flat winding being provided about one limb of the E-shaped ferrite core.

3. The transmitter head as recited in at least one of the preceding claims, wherein the primary conductors are constructed as line conductors, or the primary conductors are constructed as flat conductors whose surface normal is

perpendicular to the plane accommodating the secondary-winding arrangement.

4. The transmitter head as recited in at least one of the preceding claims, wherein the secondary-winding arrangement is disposed at the lower side of the floor of a vehicle.

5. The transmitter head as recited in at least one of the preceding claims, wherein the secondary-winding arrangement is embedded into a potting compound.

6. The transmitter head as recited in at least one of the preceding claims, wherein the primary-conductor arrangement is disposed in a stationary manner in the near-surface region of a travel path.

7. The transmitter head as recited in at least one of the preceding claims, wherein the primary-conductor arrangement and/or the secondary-conductor arrangement is/are formed at least partially of litz-wire material.

8. The transmitter head as recited in at least one of the preceding claims, wherein the flat winding is implemented as a conductor track on a single-layer or multilayer board.

9. The transmitter head as recited in at least one of the preceding claims, wherein the board is also fitted with electronic components.

10. The transmitter head as recited in at least one of the preceding claims, wherein the board is joined to a housing part encompassing a cooling device.

11. The transmitter head as recited in at least one of the preceding claims, wherein the cooling device has cooling fins and/or cooling fingers.

12. A system for contactless energy transmission, having a transmitter head as recited in at least one of the preceding claims,

two line conductors 42 being laid in the floor with a mutual distance A,

wherein the distance of the transmitter head from the floor is between  $0.05 * A$  and  $0.2 * A$ .